Claims

[c1]   What is claimed is:

1. A method for determining triggering of a polling request in a wireless communications protocol for a transmitter, the transmitter capable of transmitting protocol data units (PDUs), each PDU comprising an n-bit sequence number, the method comprising:

providing a polling determination method that determines if polling should be performed; and

causing polling to be triggered only if a PDU that is to be transmitted is not a re-transmitted PDU and the polling determination method indicates that polling is to be triggered.JSam JiangThis is the major point of this patent. Can it be stated as an independent claim? I am thinking that "the equation with S" may not be accepted by 3GPP but the "not a re-transmitted PDU" concept will be accepted.

[c2]   2. The method of claim 1 wherein the polling determination method comprises:

providing a polling value beyond which polling is to be triggered;

obtaining a base sequence number VT(A), the base sequence number VT(A) marking a beginning sequence number of a transmitting window of the transmitter;

obtaining a first value that is $(2^n + 1)$ added to a difference of a parameter S and the base sequence number VT(A);

obtaining a second value that is a modulus of the first value with 2^n; and obtaining a test value that is the second value divided by a size of the transmitting window;

wherein polling is to be triggered if the test value is greater than the polling value, and the parameter S is the n-bit sequence number of the PDU that is to be transmitted.

[c3]   3. The method of claim 2 wherein polling is to be triggered if the test value is equal to the polling value.

[c4]   4. The method of claim 2 wherein the polling value indicates a percentage of PDUs in the transmitting window that have been transmitted by the transmitter.